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Evolutionary Acquisition with an Incremental Approach

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Evolutionary Acquisition with an Incremental Approach



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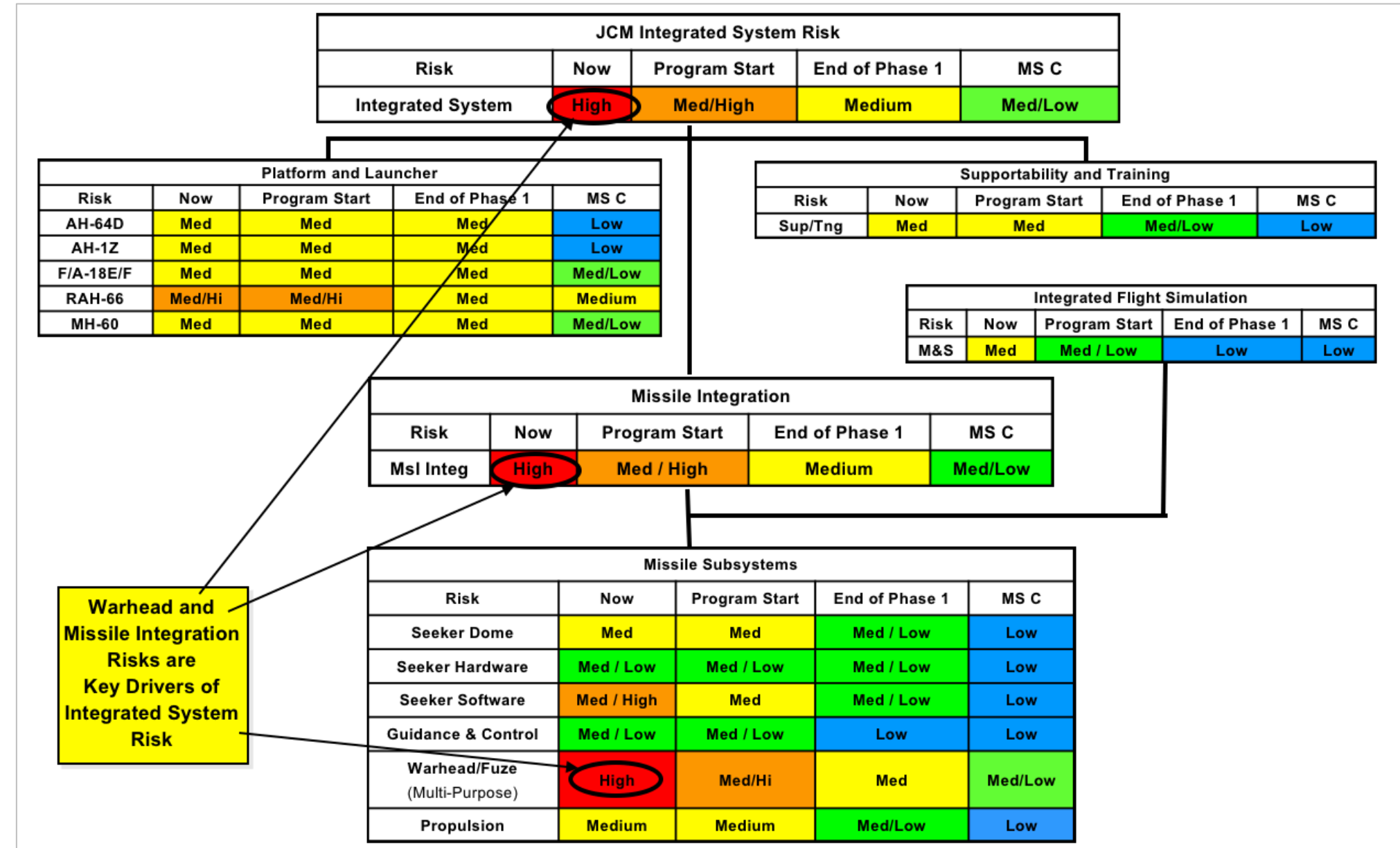
Abstract

The purpose of this project is to answer the primary research question: How difficult is it to develop a successful incremental acquisition approach for defense acquisition programs? The focus of this research is to examine how difficult it is to successfully develop an evolutionary acquisition strategy with an incremental development approach. The research uses the DOD’s Joint Common Missile (JCM) program and the subsequent Joint Air Ground Missile (JAGM) program as the basis to survey acquisition professionals. This research prepares a preliminary survey to assess capabilities of future surveys and analysis of higher level acquisition scheduling and program planning.

The preliminary survey created for this thesis helps to enable future research on survey and questionnaire methods in the acquisition academic environment. Feedback for the preliminary survey from acquisition subject matter experts helps to edit as needed to finalize a detailed and effective survey for future use. Results of the preliminary survey will help to develop future questionnaires and training programs for acquisition professionals.



JAGM Program History



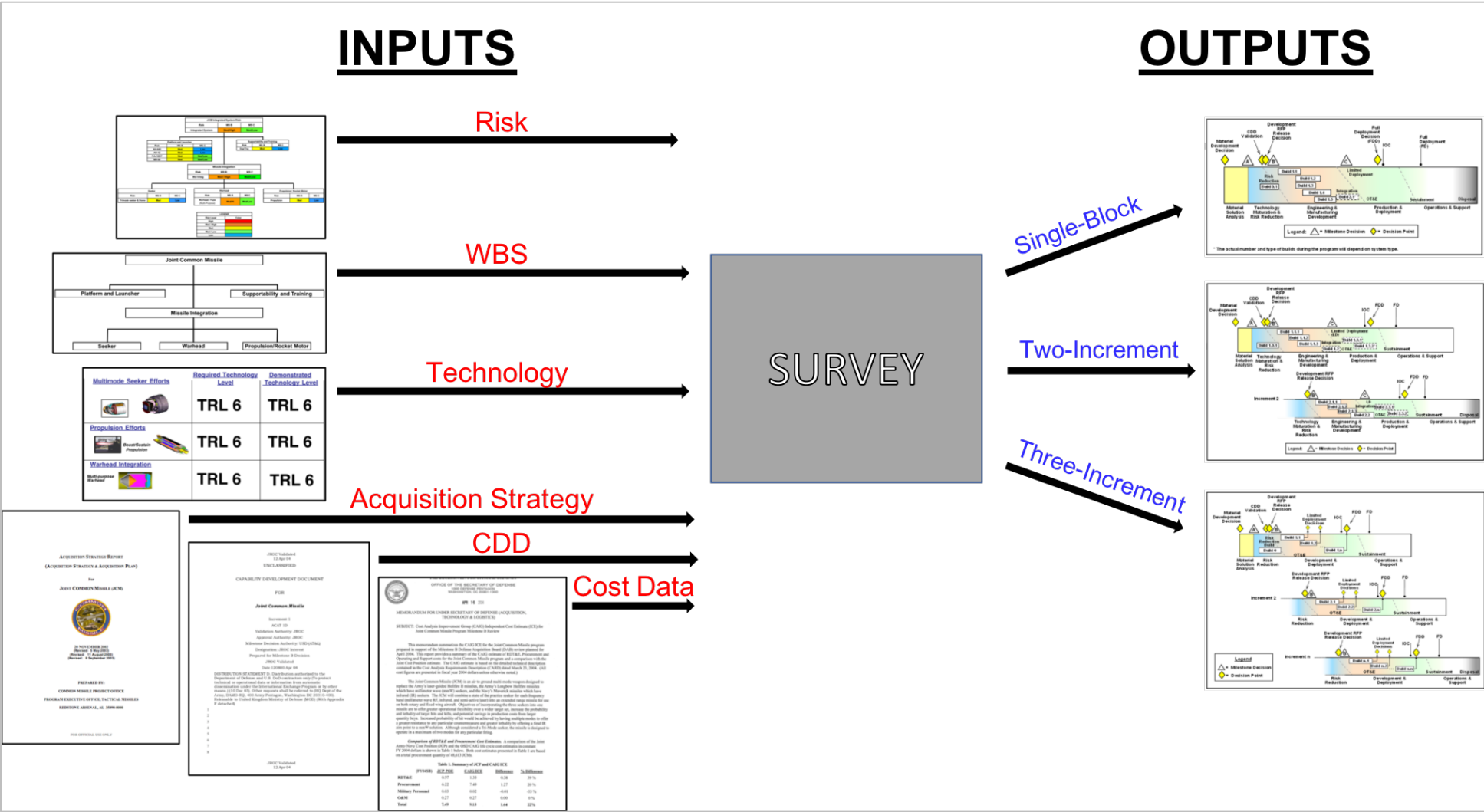
JCM Risk by WBS Level

Methods

- Collected and analyzed program information for the JCM and subsequent JAGM program.
- Synthesized key elements of cost, schedule, and performance from multiple source documents (CDD, AS, JCP/CAIG ICE, RA) into applicative queries.
- Formulated a beta survey to take into account what critical requirements acquisition professionals consider when developing program schedules.

Results

- Development of a quality survey with hard copy and digital versions capable of aggregating future data in an easy to use medium.
- Pre-packaged survey to facilitate future data collection and analysis.



Survey Inputs and Outputs

Recommendations

- Administer survey to acquisition professionals attending DoD academic acquisition environments.
- Conduct sensitivity analysis by adjusting variable inputs (risk, TRL, AUPC, etc.) on future surveys to determine what critical factors acquisition professionals consider in developing program schedules.